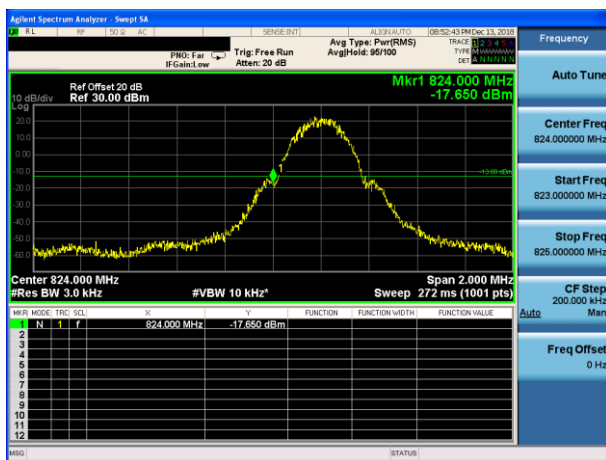


### Test plot For

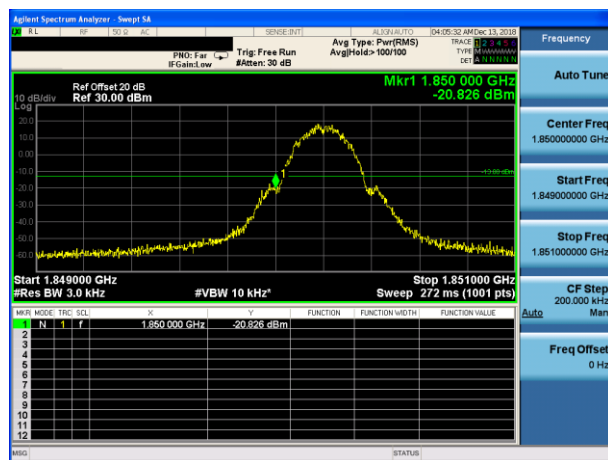
(GPRS850)

Conducted Band Edge plot on channel 128

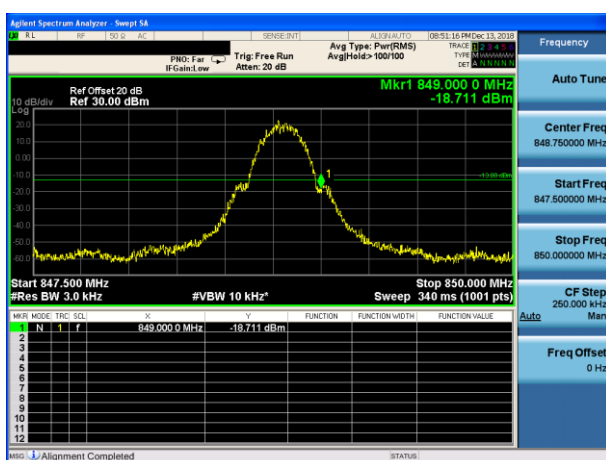


(GPRS1900)

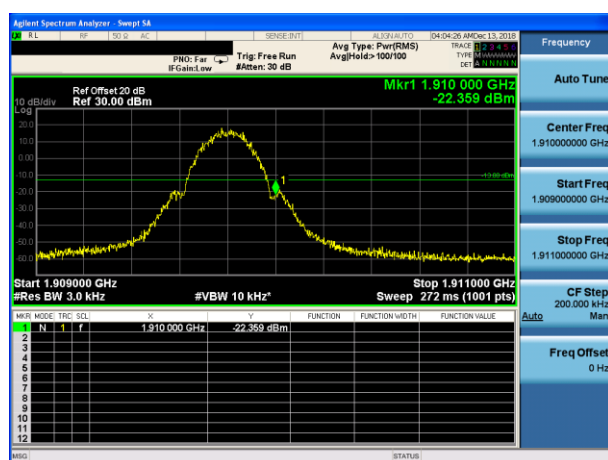
Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251



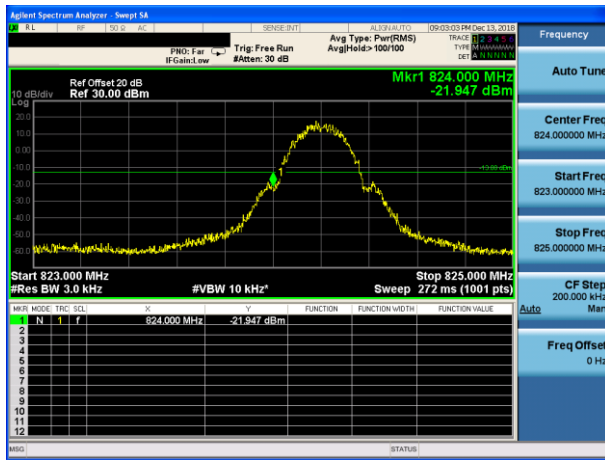
Conducted Band Edge plot on channel 810



# Test plot For

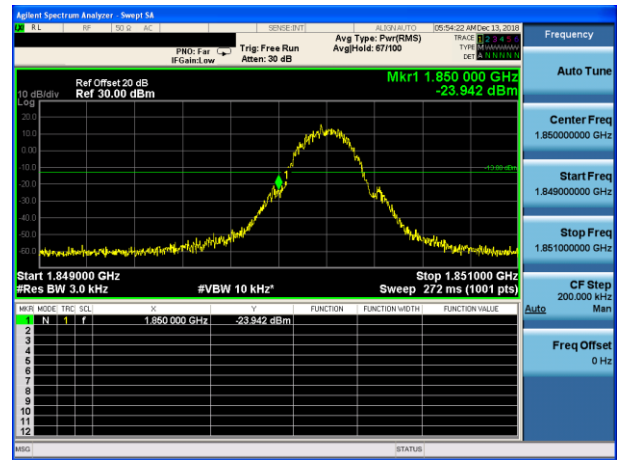
(EGPRS850)

Conducted Band Edge plot on channel 128

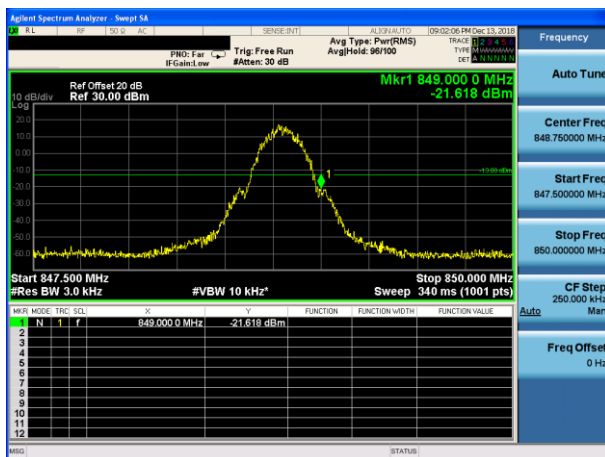


(EGPRS1900)

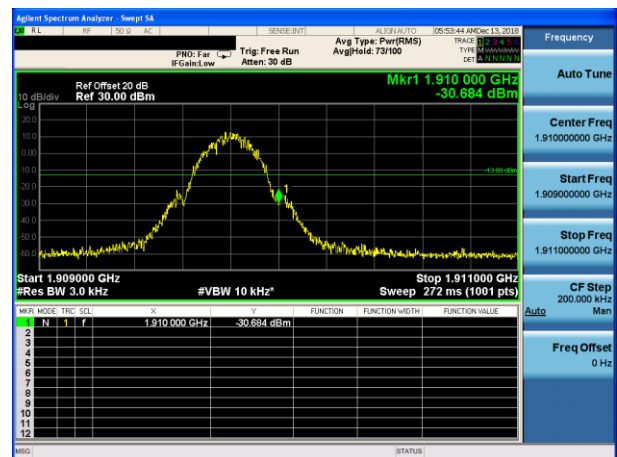
Conducted Band Edge plot on channel 512



Conducted Band Edge plot on channel 251



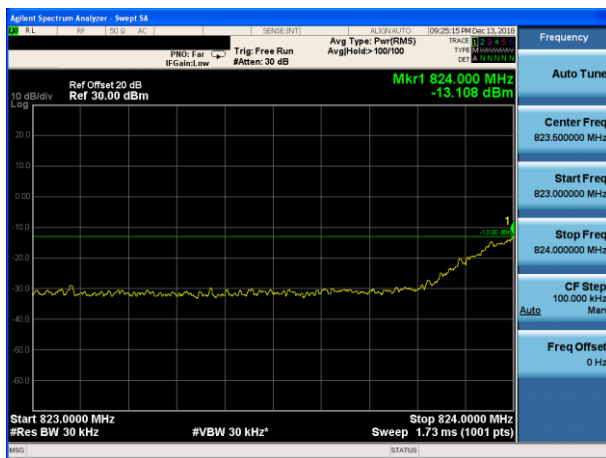
Conducted Band Edge plot on channel 810



### Test plot For

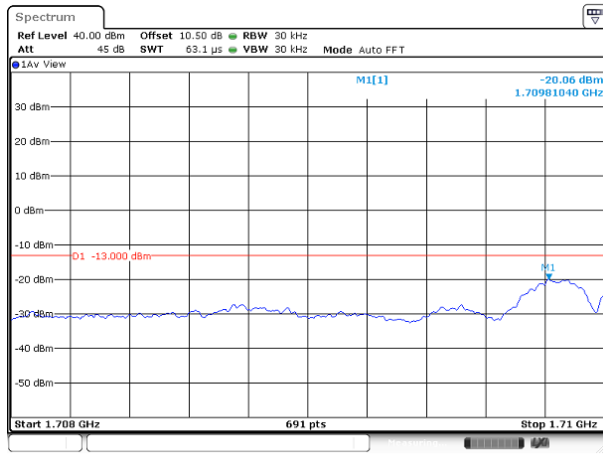
#### UMTS Band V

#### Conducted Band Edge plot on channel 4132

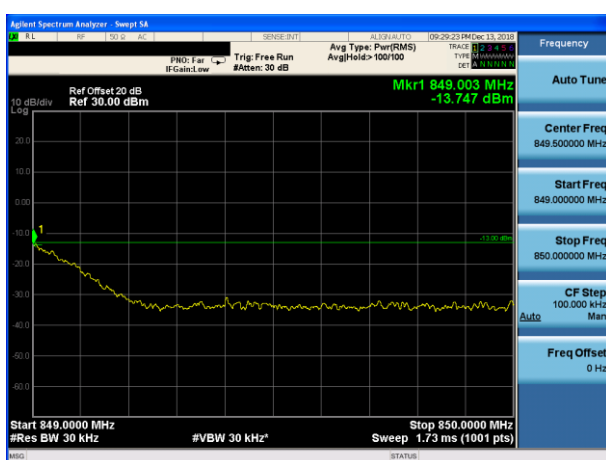


#### UMTS Band IV

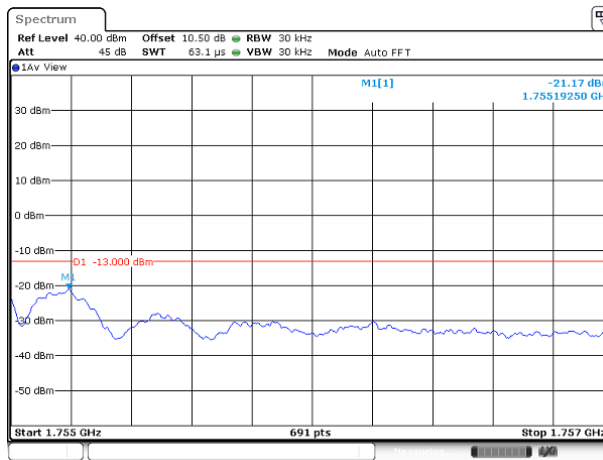
#### Conducted Band Edge plot on channel 1312



#### Conducted Band Edge plot on channel 4233



#### Conducted Band Edge plot on channel 1513



UMTS Band II Test data reference attachment

## 7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

### 7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section 6.0

### 7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### 7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

### 7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

### 7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

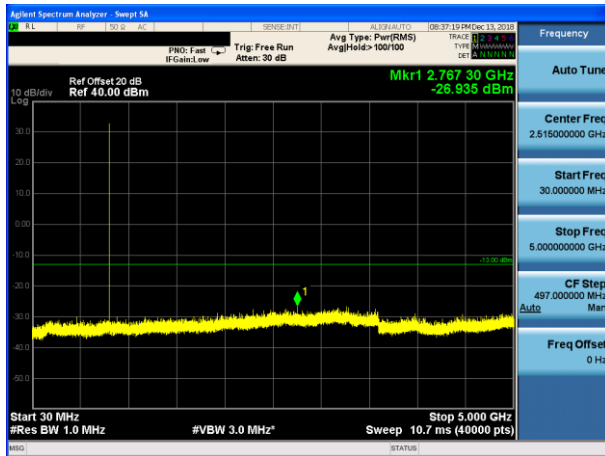
### 7.8.6 Test Results

|               |                                                                                          |                    |           |
|---------------|------------------------------------------------------------------------------------------|--------------------|-----------|
| EUT:          | LTE SMARTPHONE                                                                           | Model No.:         | PSM01E    |
| Temperature:  | 20 °C                                                                                    | Relative Humidity: | 48%       |
| Test Mode:    | GSM/GPRS/EGPRS 850/<br>GSM/GPRS/EGPRS 1900<br>UMTS band II/ UMTS band V/<br>UMTS band IV | Test By:           | Loren Luo |
| Results: PASS |                                                                                          |                    |           |

### Test Plot

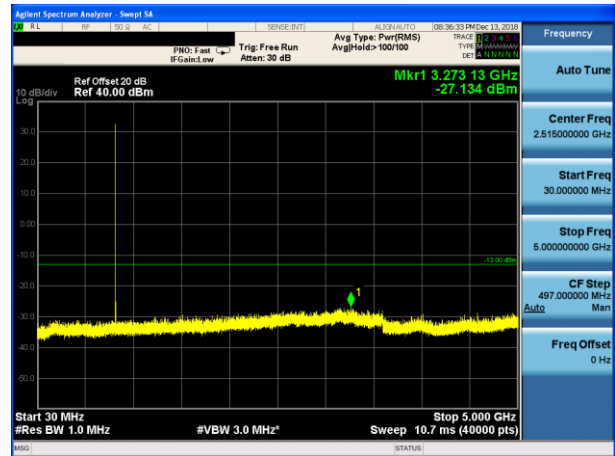
#### GSM850

Conducted Emission Transmitting Mode CH 128  
30MHz – 5GHz

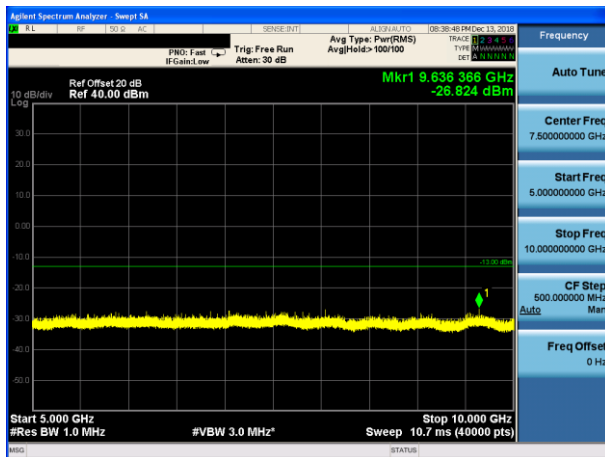


#### GSM850

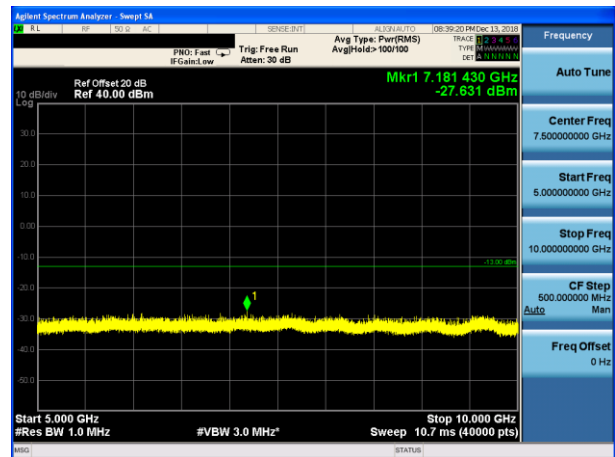
Conducted Emission Transmitting Mode CH 190  
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128  
5GHz – 10GHz



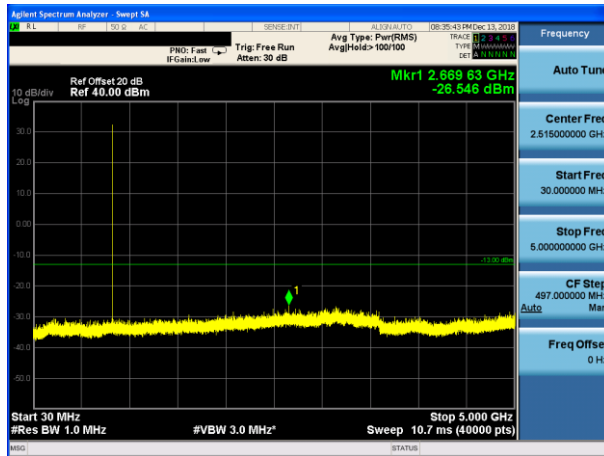
Conducted Emission Transmitting Mode CH 190  
5GHz – 10GHz



## Test Plot

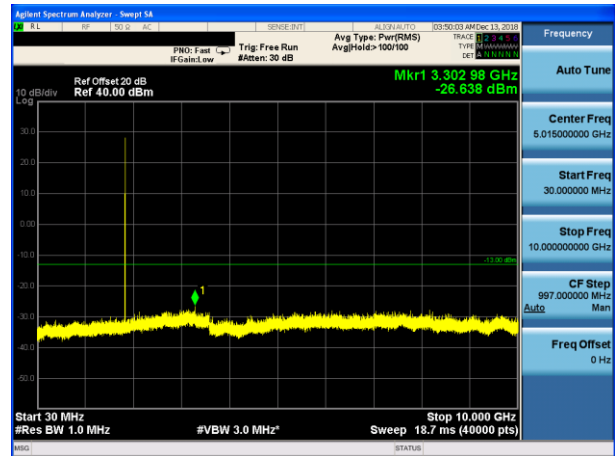
### GSM850

Conducted Emission Transmitting Mode CH 251  
30MHz – 5GHz

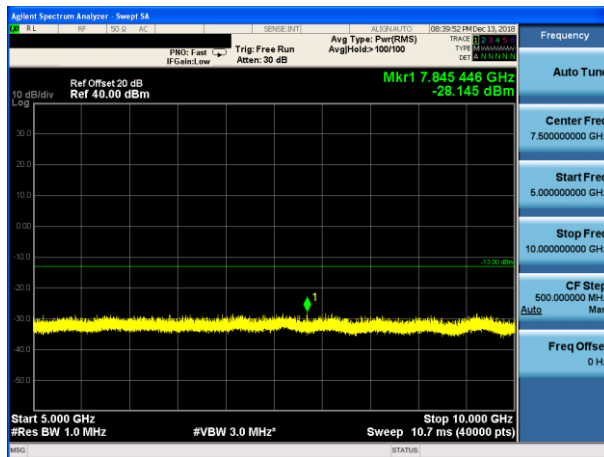


### GSM1900

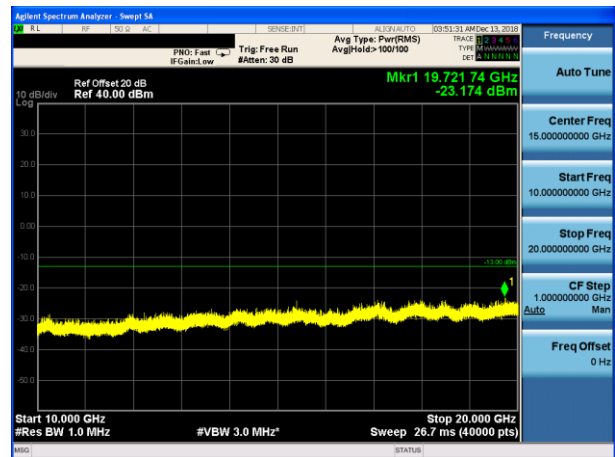
Conducted Emission Transmitting Mode CH 512  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251  
5GHz – 10GHz



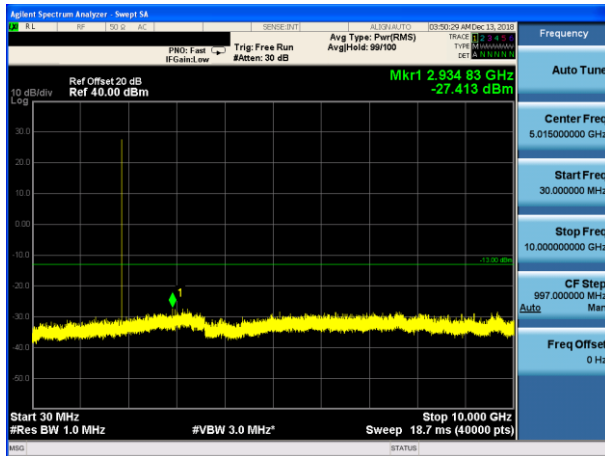
Conducted Emission Transmitting Mode CH 512  
10GHz – 20GHz



### Test Plot

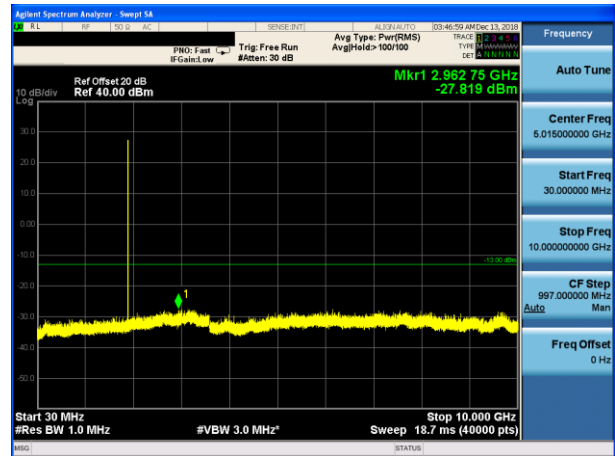
#### GSM1900

Conducted Emission Transmitting Mode CH 661  
30MHz – 10GHz

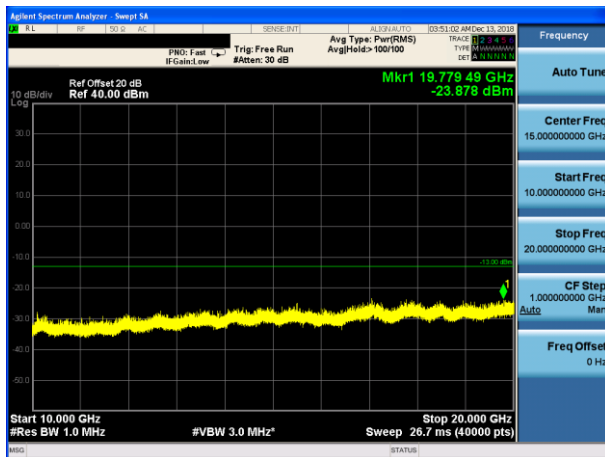


#### GSM1900

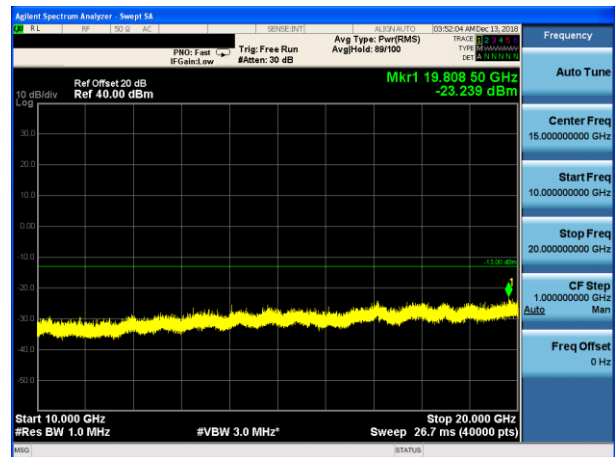
Conducted Emission Transmitting Mode CH 810  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 661  
10GHz – 20GHz



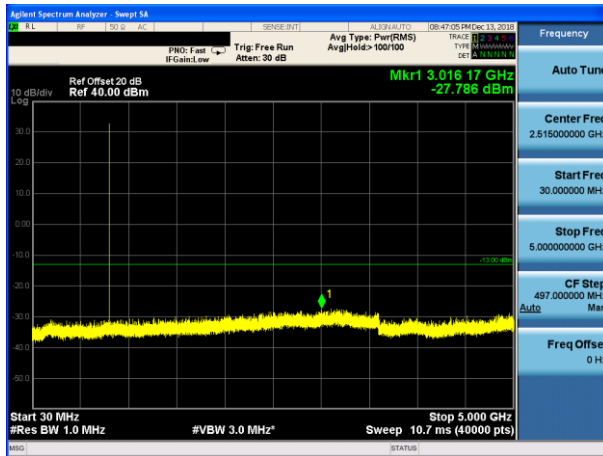
Conducted Emission Transmitting Mode CH 810  
10GHz – 20GHz



### Test Plot

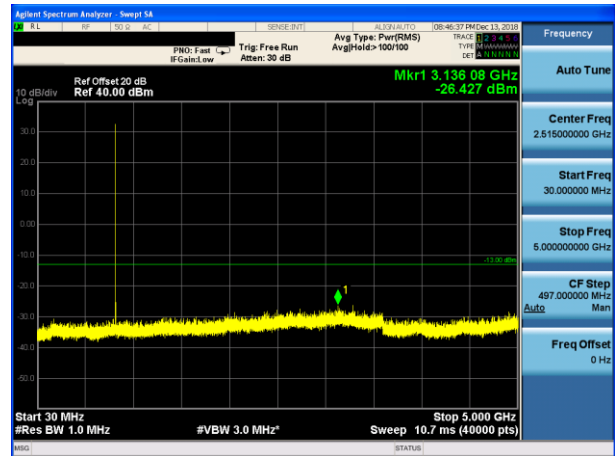
#### GPRS850

Conducted Emission Transmitting Mode CH 128  
30MHz – 5GHz

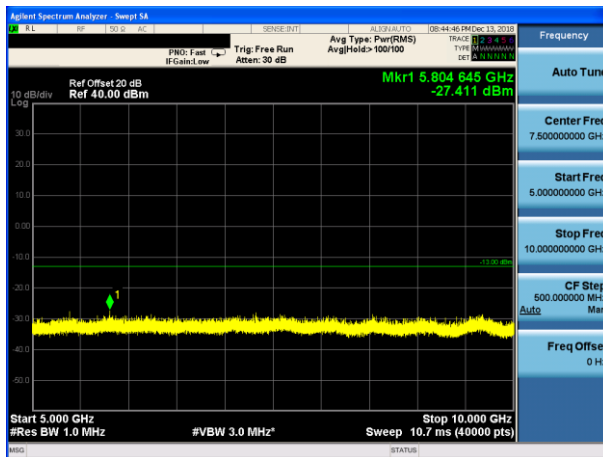


#### GPRS850

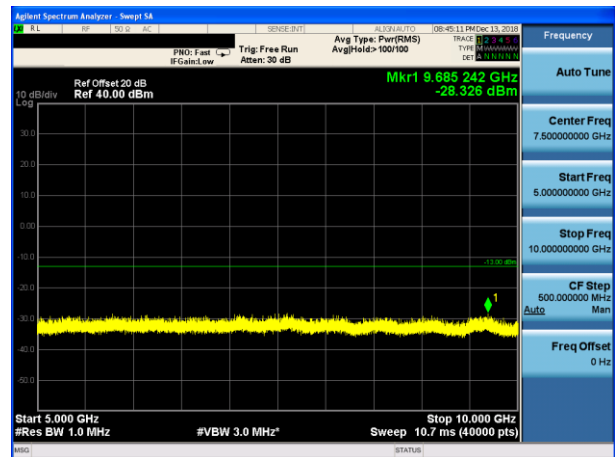
Conducted Emission Transmitting Mode CH 190  
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128  
5GHz – 10GHz



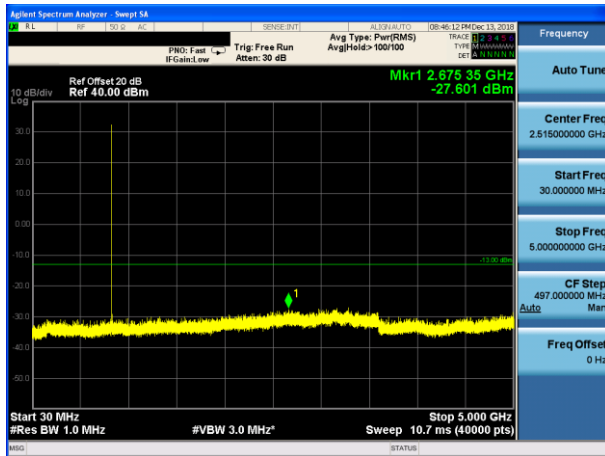
Conducted Emission Transmitting Mode CH 190  
5GHz – 10GHz



### Test Plot

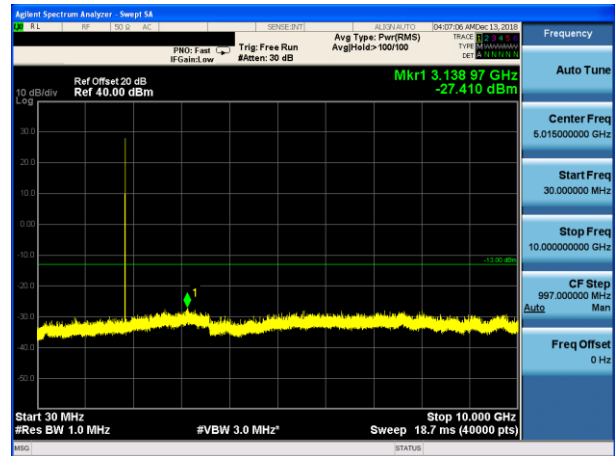
#### GPRS850

Conducted Emission Transmitting Mode CH 251  
30MHz – 5GHz

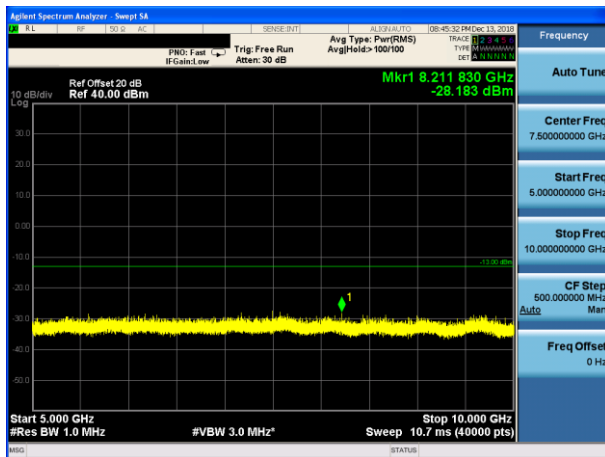


#### GPRS1900

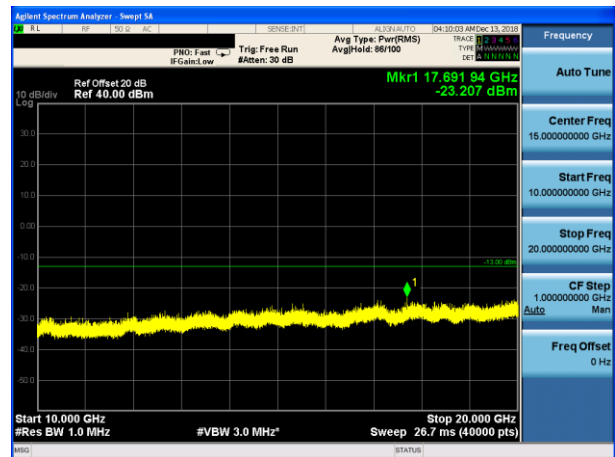
Conducted Emission Transmitting Mode CH 512  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251  
5GHz – 10GHz



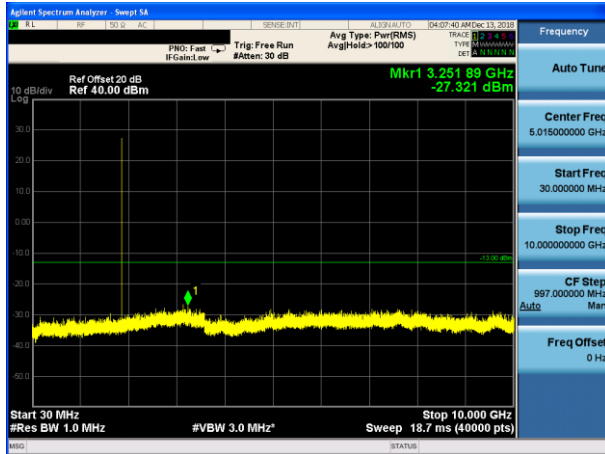
Conducted Emission Transmitting Mode CH 512  
10GHz – 20GHz



### Test Plot

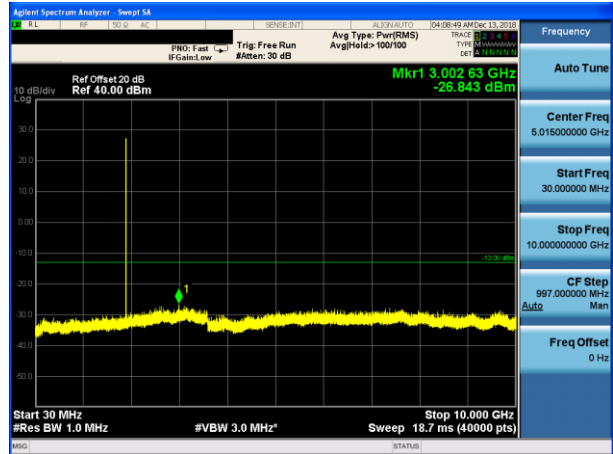
#### GPRS1900

Conducted Emission Transmitting Mode CH 661  
30MHz – 10GHz

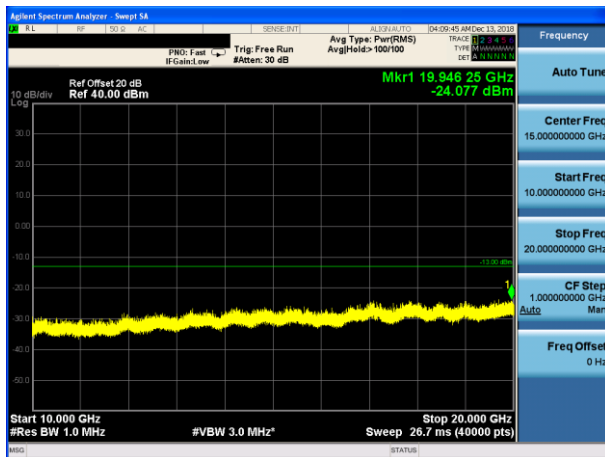


#### GPRS1900

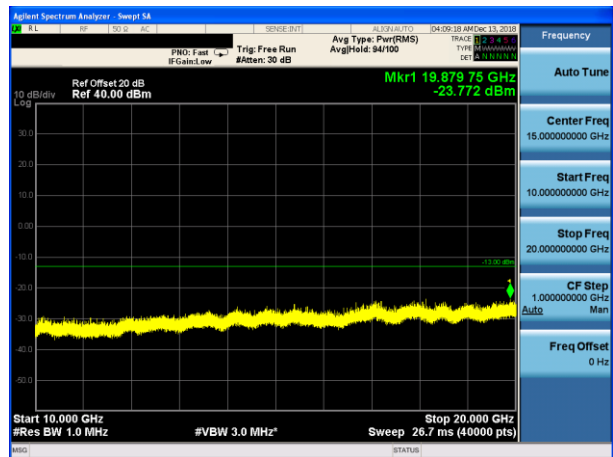
Conducted Emission Transmitting Mode CH 810  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 661  
10GHz – 20GHz



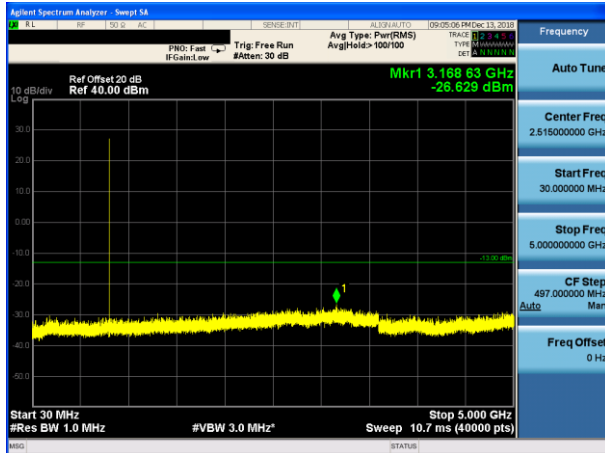
Conducted Emission Transmitting Mode CH 810  
10GHz – 20GHz



### Test Plot

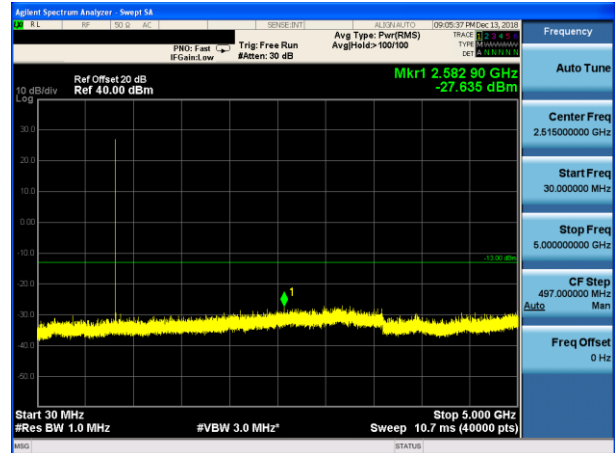
#### EGPRS850

Conducted Emission Transmitting Mode CH 128  
30MHz – 5GHz

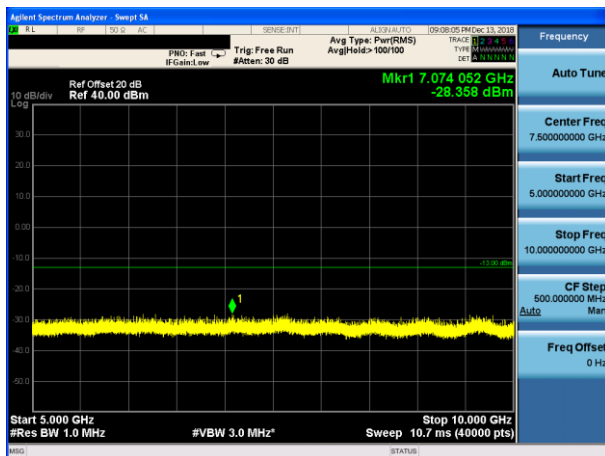


#### EGPRS850

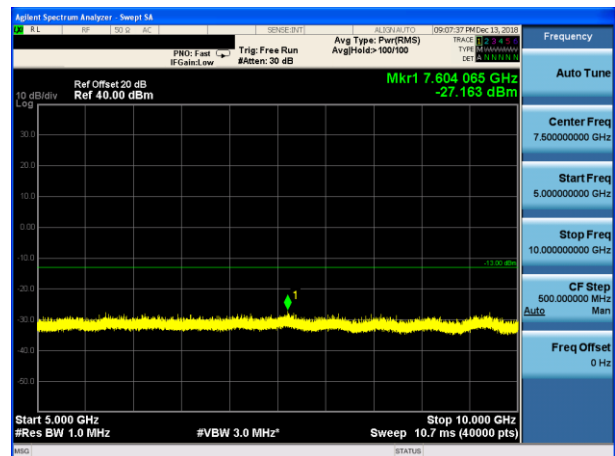
Conducted Emission Transmitting Mode CH 190  
30MHz – 5GHz



Conducted Emission Transmitting Mode CH 128  
5GHz – 10GHz



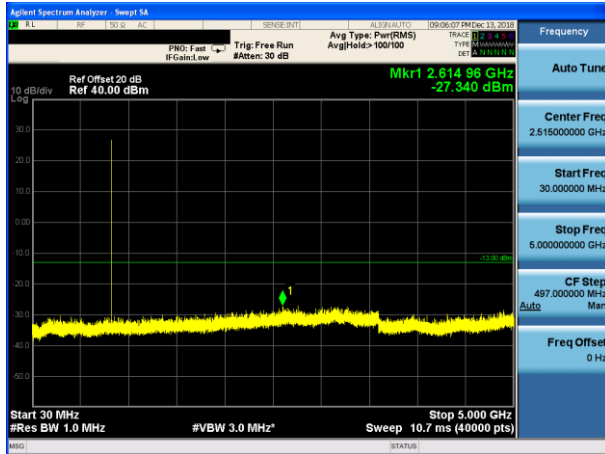
Conducted Emission Transmitting Mode CH 190  
5GHz – 10GHz



### Test Plot

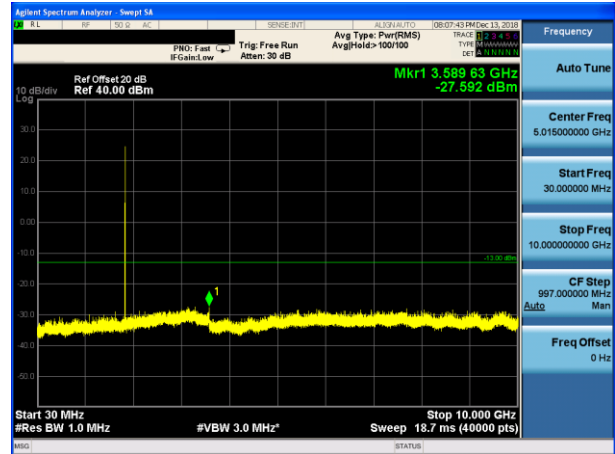
#### EGPRS850

Conducted Emission Transmitting Mode CH 251  
30MHz – 5GHz

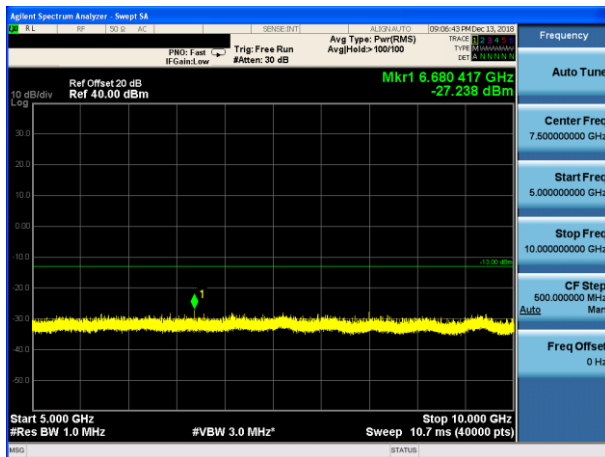


#### EGPRS1900

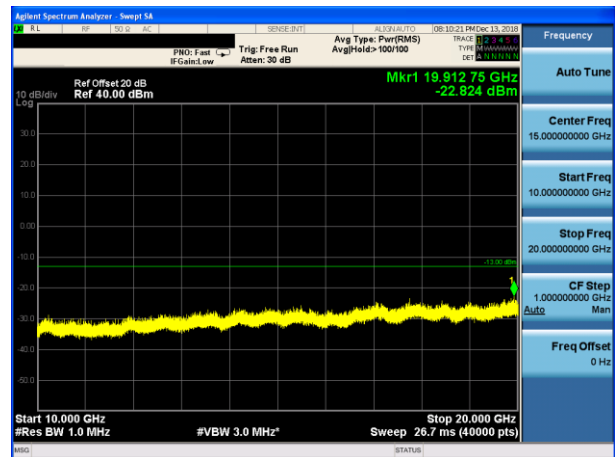
Conducted Emission Transmitting Mode CH 512  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 251  
5GHz – 10GHz



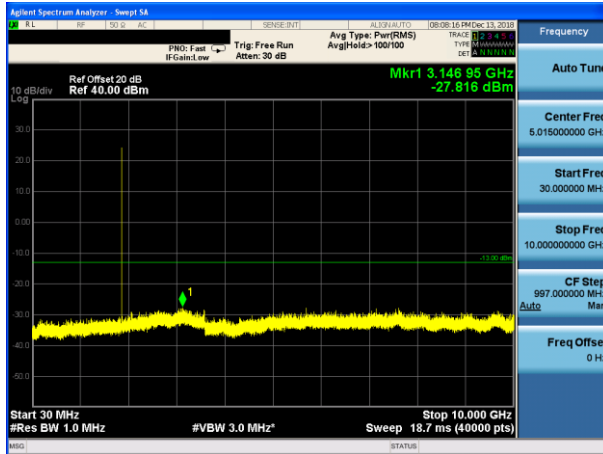
Conducted Emission Transmitting Mode CH 512  
10GHz – 20GHz



### Test Plot

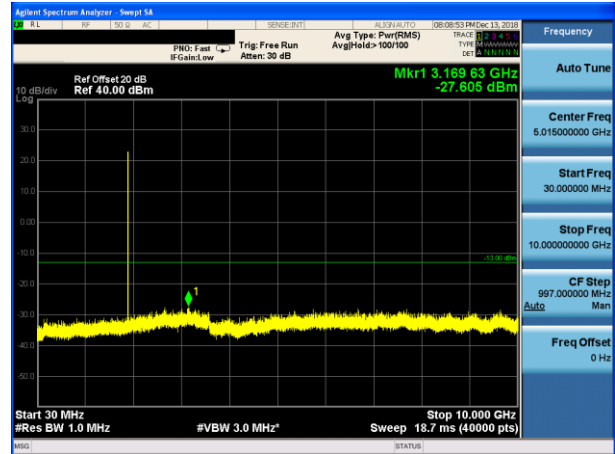
#### EGPRS1900

Conducted Emission Transmitting Mode CH 661  
30MHz – 10GHz

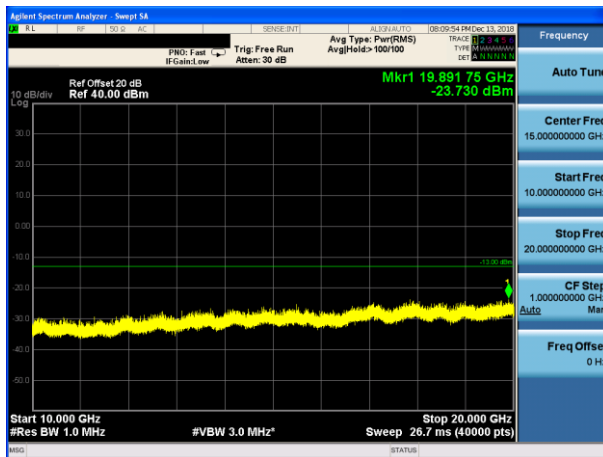


#### EGPRS1900

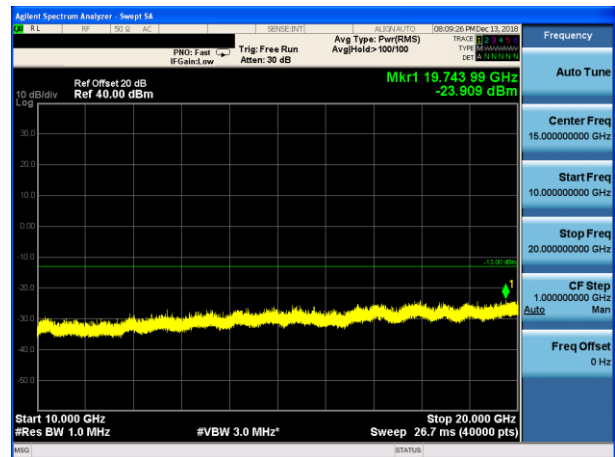
Conducted Emission Transmitting Mode CH 810  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH 661  
10GHz – 20GHz



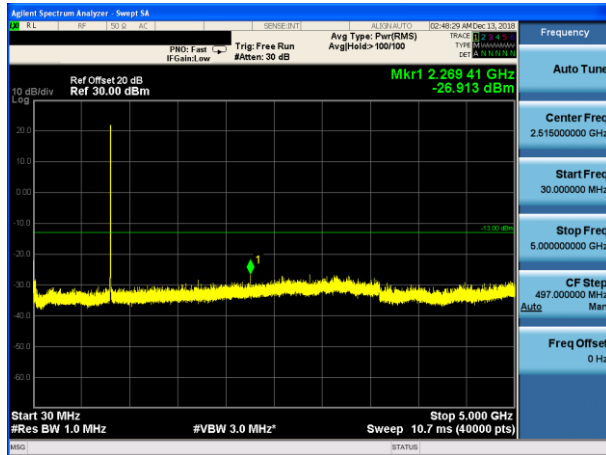
Conducted Emission Transmitting Mode CH 810  
10GHz – 20GHz



### Test Plot

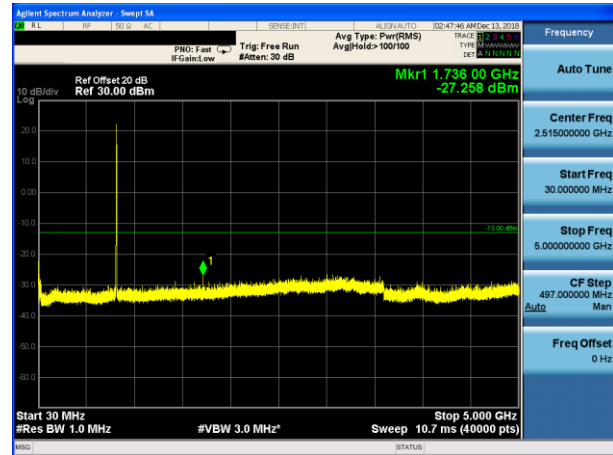
UMTS band V

Conducted Emission Transmitting Mode CH  
4132 30MHz – 5GHz

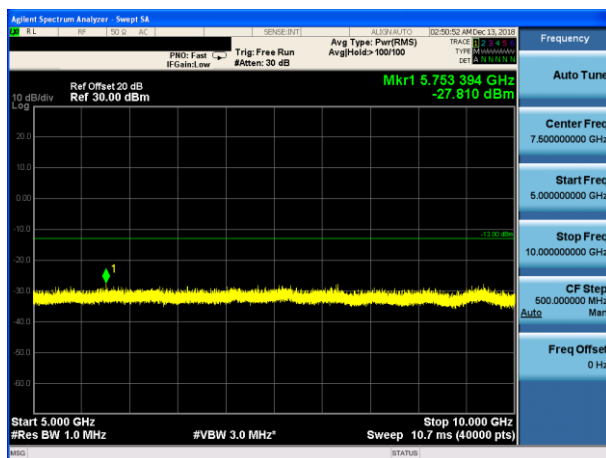


UMTS band V

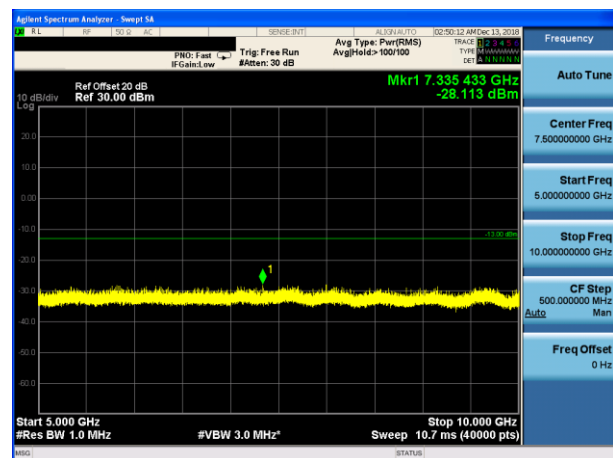
Conducted Emission Transmitting Mode CH 4183  
30MHz – 5GHz



Conducted Emission Transmitting Mode CH  
4132 5GHz – 10GHz



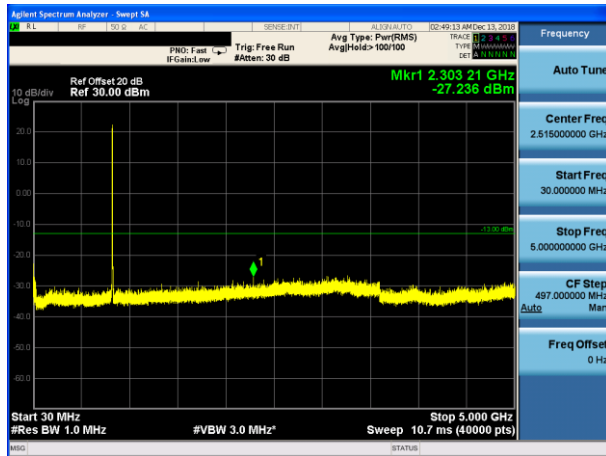
Conducted Emission Transmitting Mode CH 4183  
5GHz – 10GHz



### Test Plot

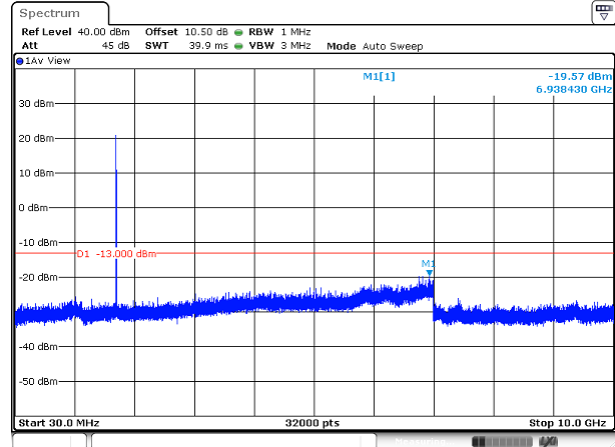
#### UMTS band V

Conducted Emission Transmitting Mode CH  
4233 30MHz – 5GHz

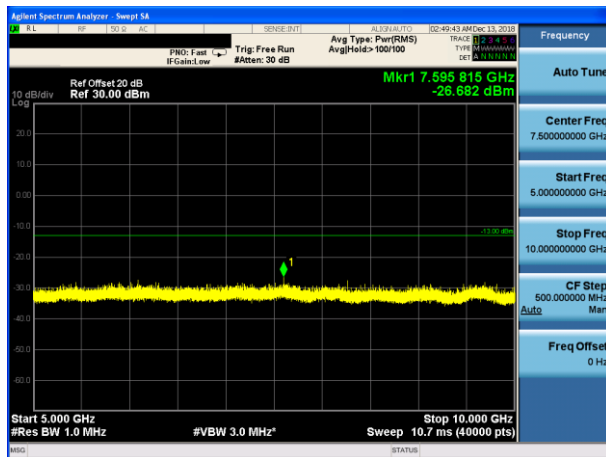


#### UMTS band IV

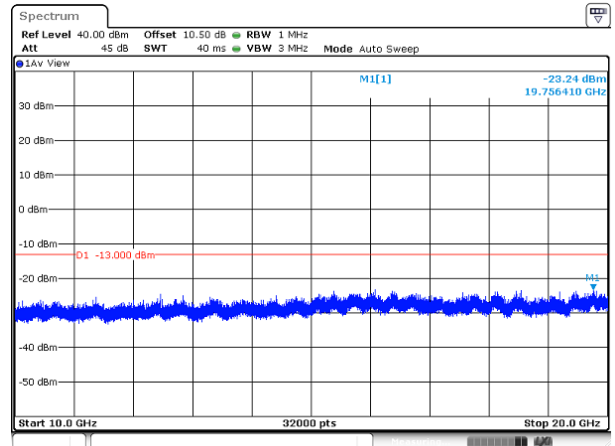
Conducted Emission Transmitting Mode CH 1312  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH  
4233 5GHz – 10GHz



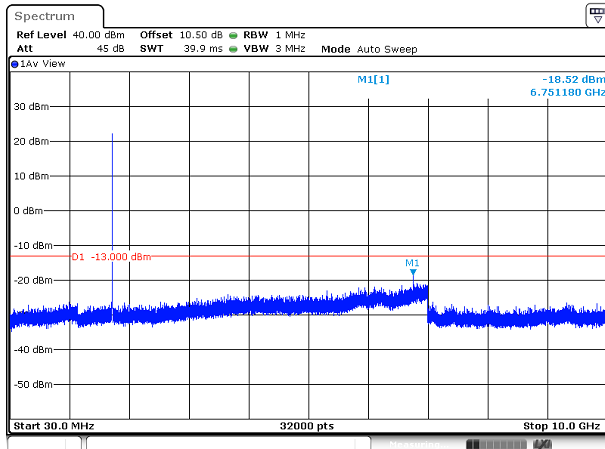
Conducted Emission Transmitting Mode CH 1312  
10GHz – 20GHz



### Test Plot

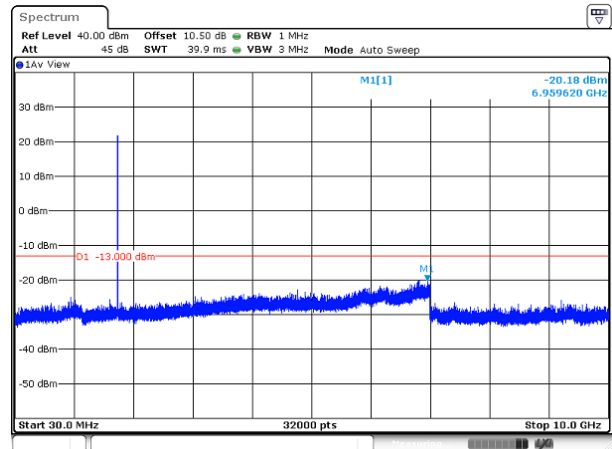
#### UMTS band IV

Conducted Emission Transmitting Mode CH  
1412 30MHz – 10GHz

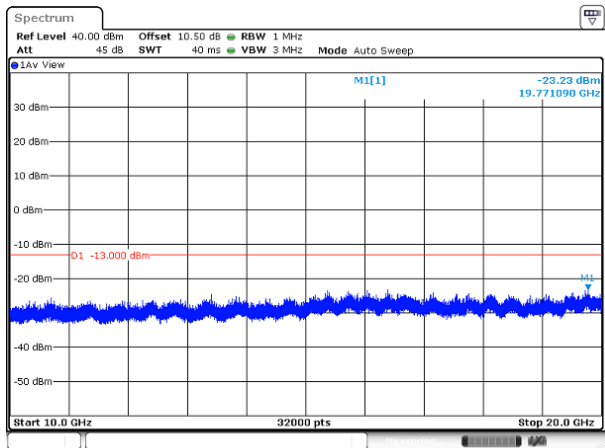


#### UMTS band IV

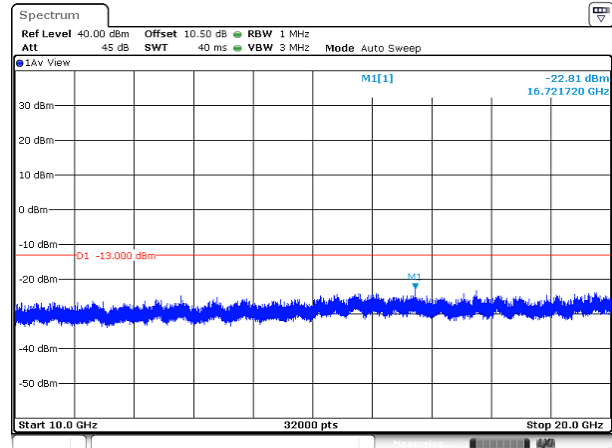
Conducted Emission Transmitting Mode CH 1513  
30MHz – 10GHz



Conducted Emission Transmitting Mode CH  
1412 10GHz – 20GHz



Conducted Emission Transmitting Mode CH 1513  
10GHz – 20GHz



UMTS band II Test data reference attachment

## 8 TEST RESULT FOR BAND 2

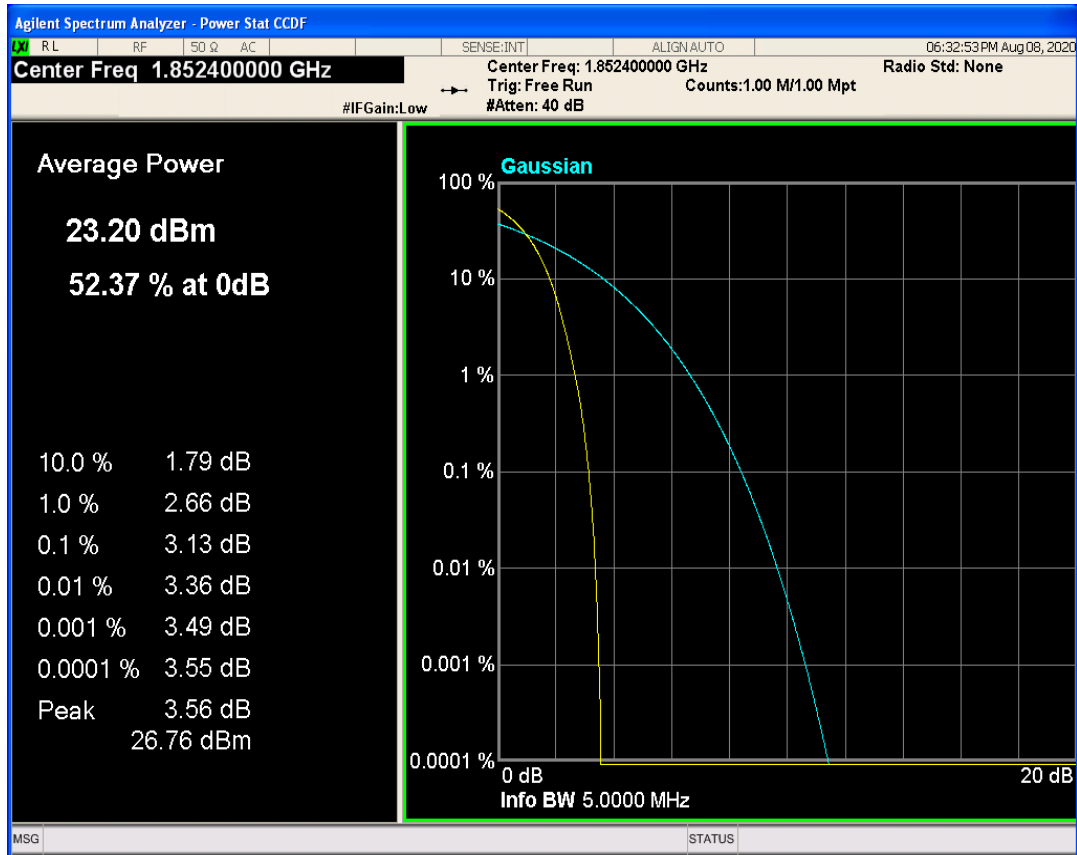
### 8.1 CONDUCTED OUTPUT POWER

| Band                 | Channel | Frequency (MHz) | Power (dBm) |
|----------------------|---------|-----------------|-------------|
| WCDMA Band2          | 9262    | 1852.4          | 23.03       |
| WCDMA Band2          | 9400    | 1880            | 23.21       |
| WCDMA Band2          | 9538    | 1907.6          | 23.17       |
| WCDMA Band2 Subtest1 | 9262    | 1852.4          | 22.12       |
| WCDMA Band2 Subtest1 | 9400    | 1880            | 22.16       |
| WCDMA Band2 Subtest1 | 9538    | 1907.6          | 22.31       |
| WCDMA Band2 Subtest2 | 9262    | 1852.4          | 21.66       |
| WCDMA Band2 Subtest2 | 9400    | 1880            | 21.59       |
| WCDMA Band2 Subtest2 | 9538    | 1907.6          | 21.79       |
| WCDMA Band2 Subtest3 | 9262    | 1852.4          | 20.42       |
| WCDMA Band2 Subtest3 | 9400    | 1880            | 20.45       |
| WCDMA Band2 Subtest3 | 9538    | 1907.6          | 20.85       |
| WCDMA Band2 Subtest4 | 9262    | 1852.4          | 20.43       |
| WCDMA Band2 Subtest4 | 9400    | 1880            | 20.92       |
| WCDMA Band2 Subtest4 | 9538    | 1907.6          | 20.82       |
| WCDMA Band2 Subtest1 | 9262    | 1852.4          | 21.61       |
| WCDMA Band2 Subtest1 | 9400    | 1880            | 21.81       |
| WCDMA Band2 Subtest1 | 9538    | 1907.6          | 21.91       |
| WCDMA Band2 Subtest2 | 9262    | 1852.4          | 21.98       |
| WCDMA Band2 Subtest2 | 9400    | 1880            | 22.15       |
| WCDMA Band2 Subtest2 | 9538    | 1907.6          | 22.18       |
| WCDMA Band2 Subtest3 | 9262    | 1852.4          | 20.88       |
| WCDMA Band2 Subtest3 | 9400    | 1880            | 20.89       |
| WCDMA Band2 Subtest3 | 9538    | 1907.6          | 21.15       |
| WCDMA Band2 Subtest4 | 9262    | 1852.4          | 22.16       |
| WCDMA Band2 Subtest4 | 9400    | 1880            | 22.26       |
| WCDMA Band2 Subtest4 | 9538    | 1907.6          | 22.38       |
| WCDMA Band2 Subtest5 | 9262    | 1852.4          | 21.28       |
| WCDMA Band2 Subtest5 | 9400    | 1880            | 21.39       |
| WCDMA Band2 Subtest5 | 9538    | 1907.6          | 21.28       |

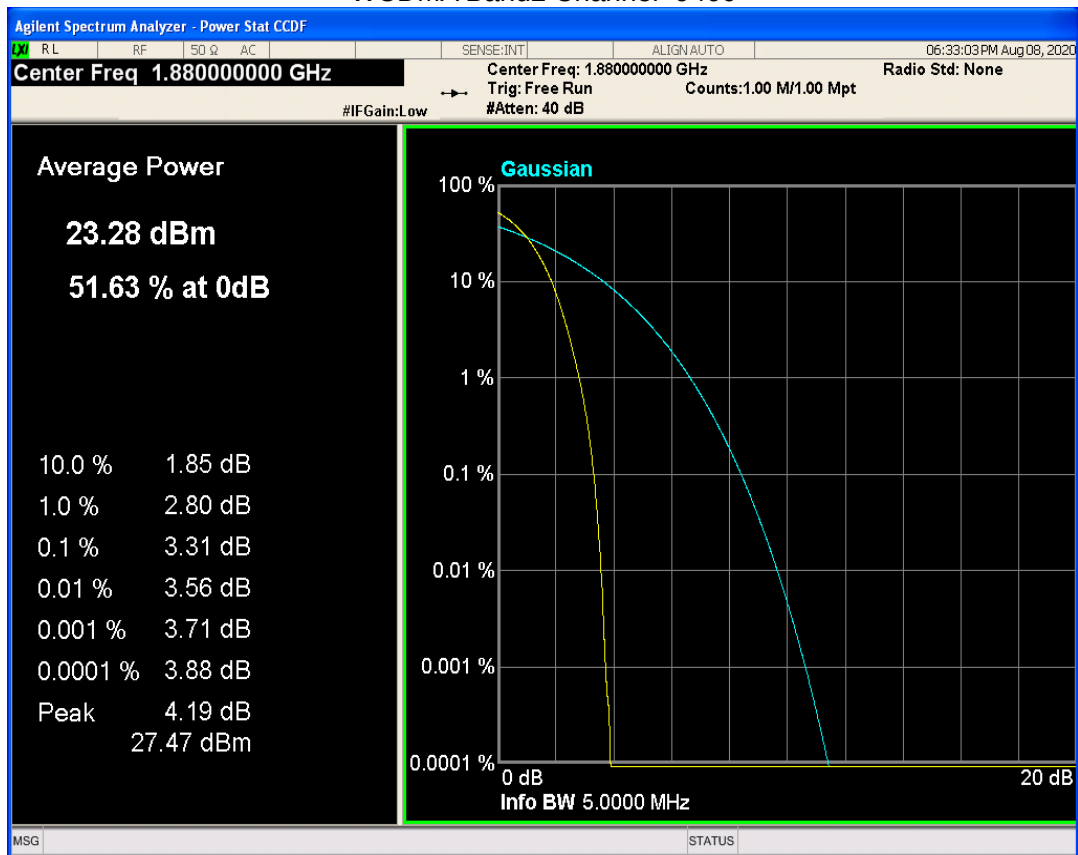
## 8.2 PEAK-TO-AVERAGE RATIO

| Band        | Channel | Frequency (MHz) | Result (dB) | high Limit (dB) | Verdict |
|-------------|---------|-----------------|-------------|-----------------|---------|
| WCDMA Band2 | 9262    | 1852.4          | 3.13        | 13              | PASS    |
| WCDMA Band2 | 9400    | 1880            | 3.31        | 13              | PASS    |
| WCDMA Band2 | 9538    | 1907.6          | 3.01        | 13              | PASS    |

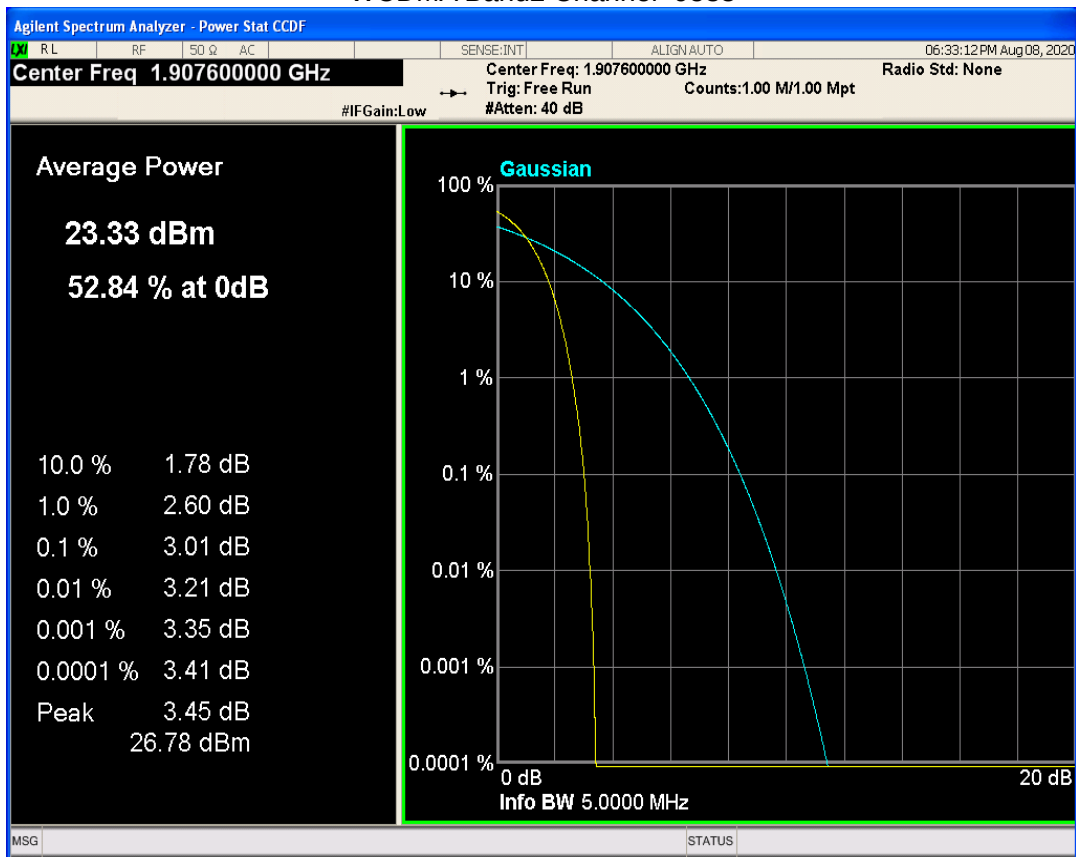
WCDMA Band2 Channel=9262



WCDMA Band2 Channel=9400



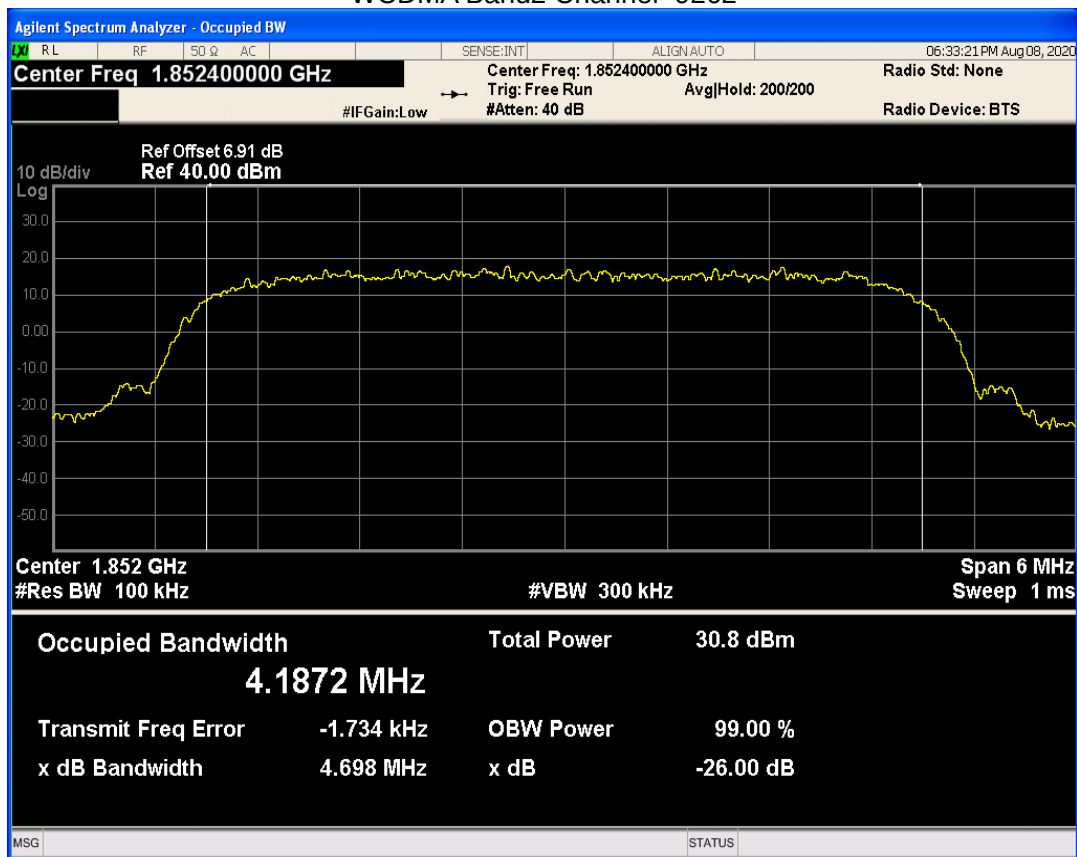
WCDMA Band2 Channel=9538



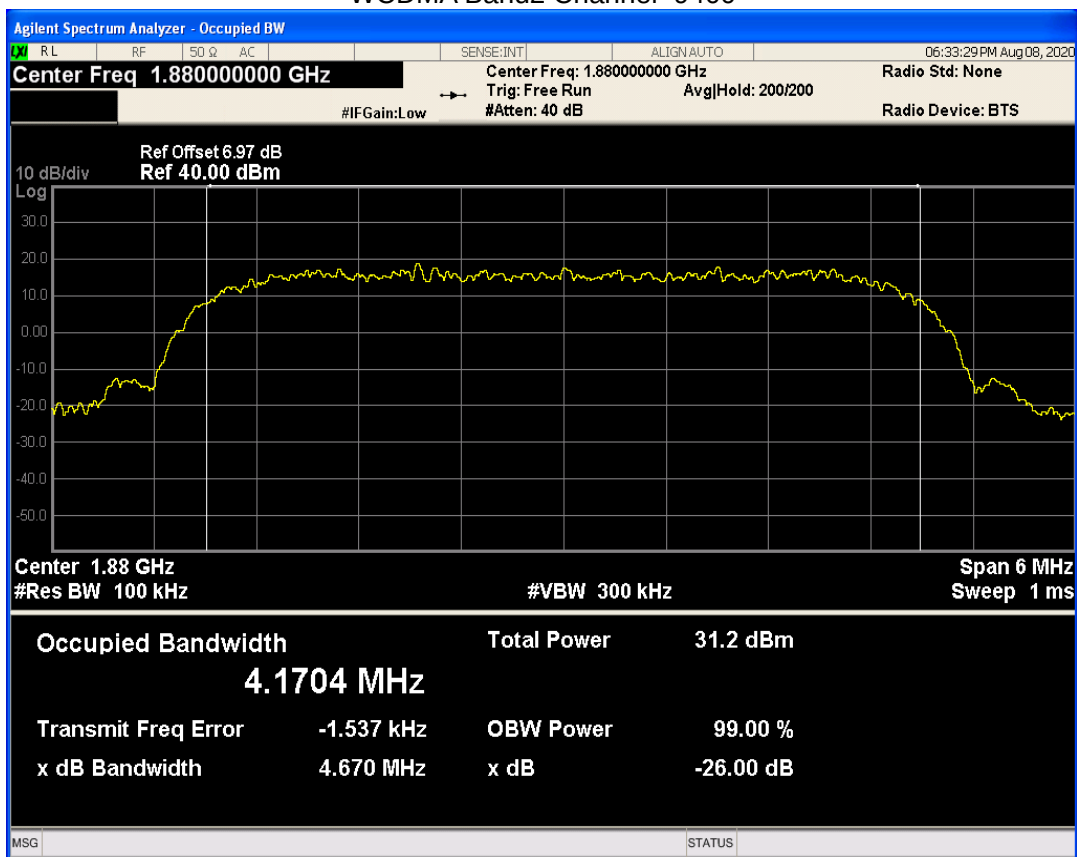
### 8.3 OCCUPIED BANDWIDTH

| Band        | Channel | Frequency (MHz) | 99% OBW (kHz) | -26dB EBW (kHz) | Verdict |
|-------------|---------|-----------------|---------------|-----------------|---------|
| WCDMA Band2 | 9262    | 1852.4          | 4187.178      | 4697.730        | PASS    |
| WCDMA Band2 | 9400    | 1880            | 4170.437      | 4670.467        | PASS    |
| WCDMA Band2 | 9538    | 1907.6          | 4176.448      | 4718.847        | PASS    |

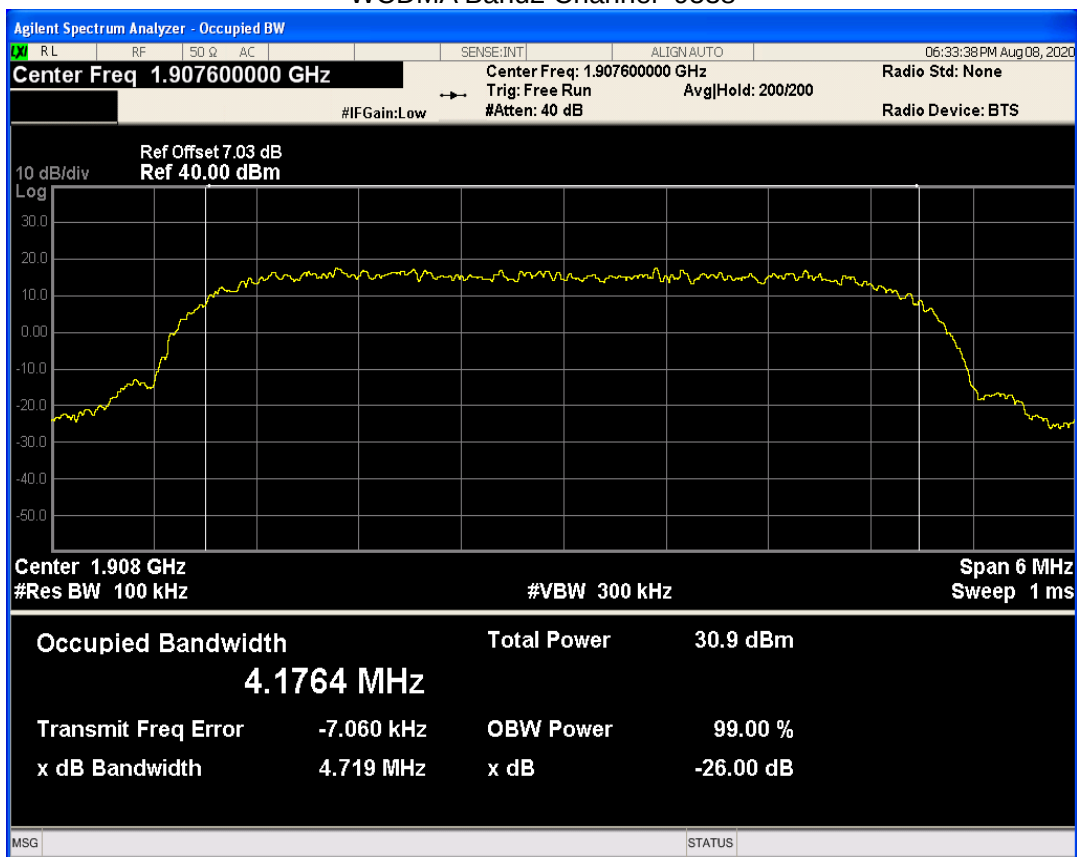
WCDMA Band2 Channel=9262



WCDMA Band2 Channel=9400



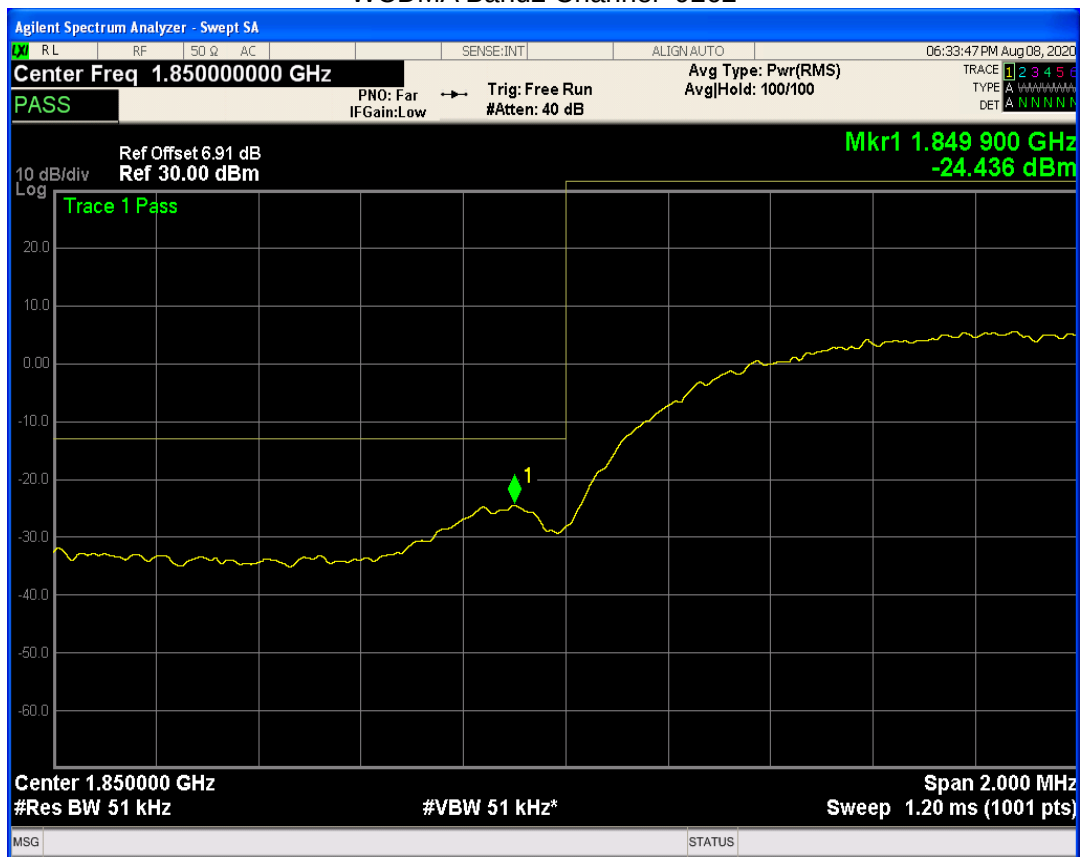
WCDMA Band2 Channel=9538



#### 8.4 BAND EDGE

| Band        | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|-----------------|------------------|-------------|---------|
| WCDMA Band2 | 9262    | 1852.4          | 1849.90         | -24.43           | -13         | PASS    |
| WCDMA Band2 | 9538    | 1907.6          | 1910.09         | -25.80           | -13         | PASS    |

WCDMA Band2 Channel=9262



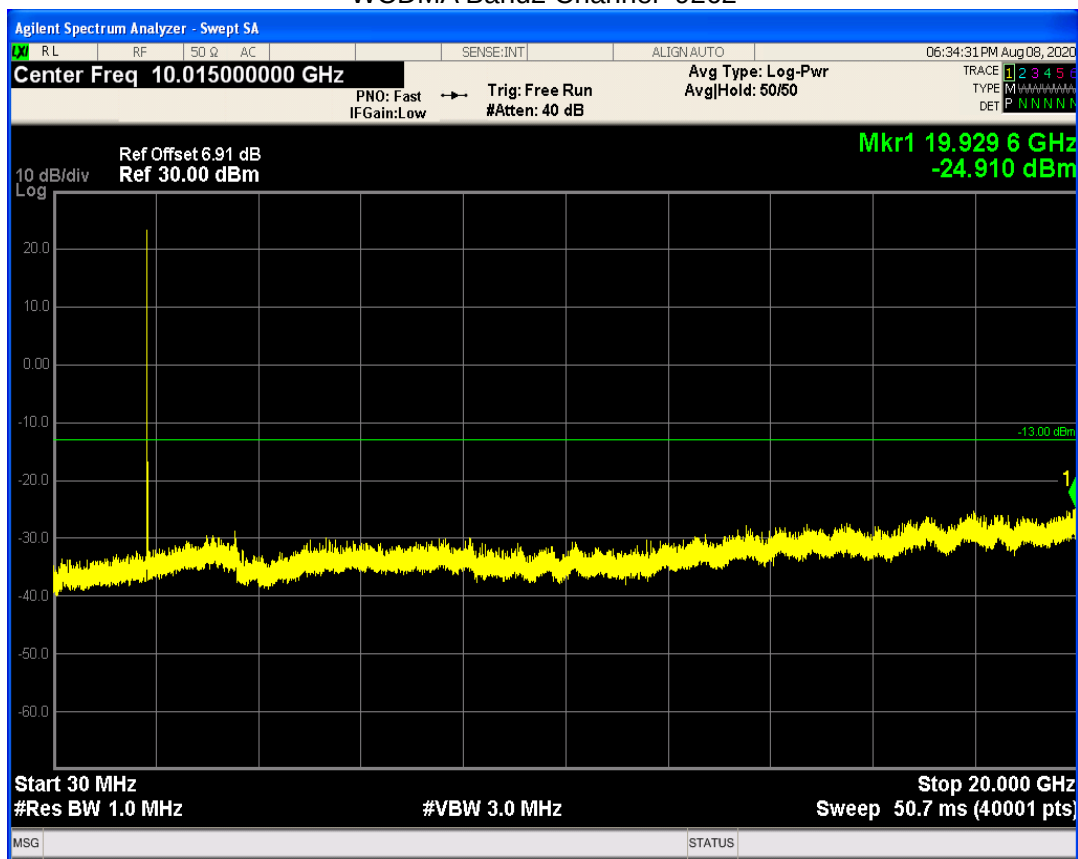
WCDMA Band2 Channel=9538



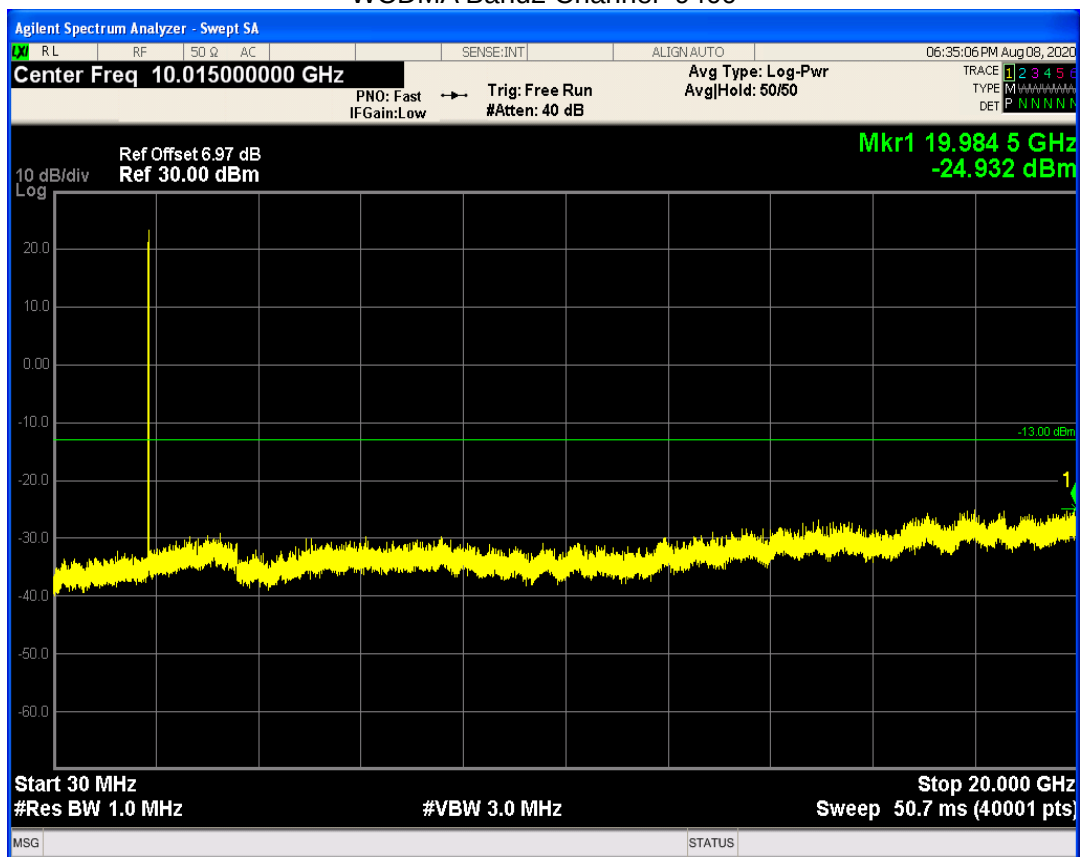
## 8.5 OUT-OF-BAND EMISSIONS

| Band        | Channel | Frequency (MHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|-----------------|------------------|-------------|---------|
| WCDMA Band2 | 9262    | 1852.4          | 19929.61        | -24.91           | -13         | PASS    |
| WCDMA Band2 | 9400    | 1880            | 19984.52        | -24.93           | -13         | PASS    |
| WCDMA Band2 | 9538    | 1907.6          | 19801.30        | -24.32           | -13         | PASS    |

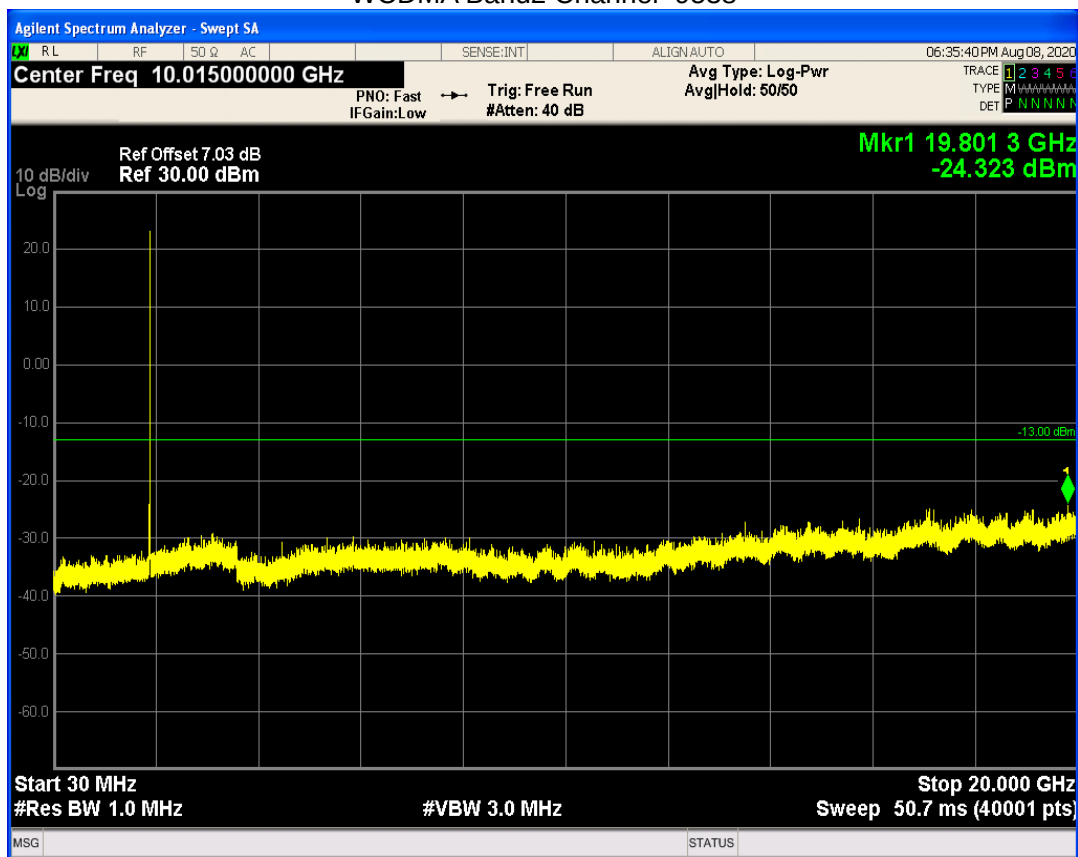
WCDMA Band2 Channel=9262



WCDMA Band2 Channel=9400



WCDMA Band2 Channel=9538



END OF REPORT